



Sustainable IT in Education (Reducing Environmental Impact)

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Practice

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A bit of background

Our Internal Success Story

- BT is committed to reducing its CO₂e emissions by 80% against 1997 levels by December 2020; by 2010 it has already achieved a reduction of over 50%. BT is responsible for 0.7% of the UK's electricity use and has some 6,000 sites.
- Our Building Energy Management System is a Best Practice approach, enabling potential energy consumption savings of more than 7% across 2,000 sites
- Our wind farm initiative – Wind for Change – is the biggest corporate green energy project outside of the energy sector
- We are one of the first companies in the UK to receive certification to the Carbon Trust Standard

We pass this experience and knowledge back to our customers

Sustainability in education

Drivers

- Government legislation; CRC Energy Efficiency Scheme, NI 186, The London Plan
- Value for money; reduced running costs & improved service
- Public awareness and education

Behaviour change

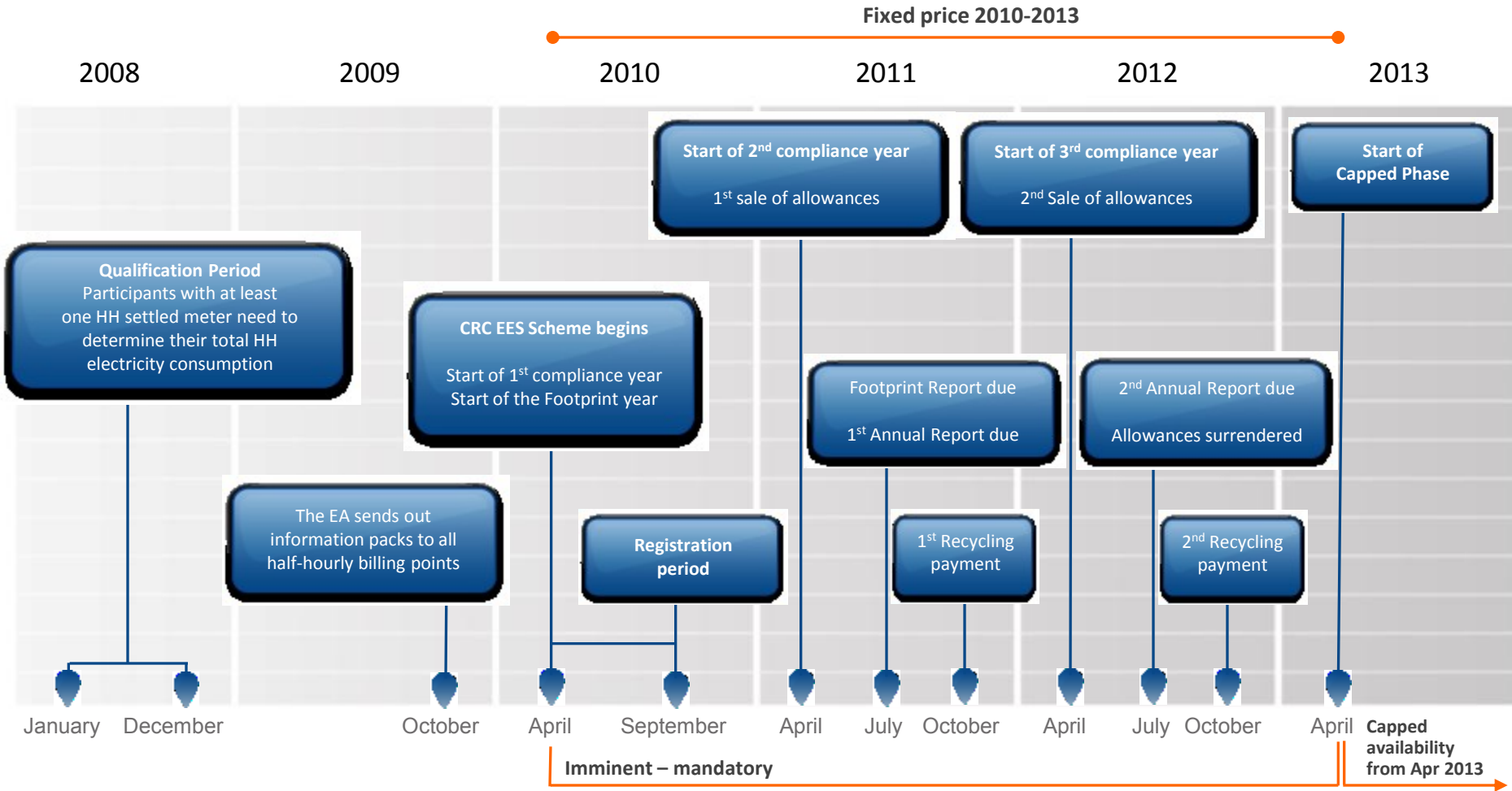
- Using ICT to drive sustainability improvements – move data not people
- Using ICT to help educators, staff and students transform the way they work
- Engaging with educators, staff, students and families to enact change

Transforming Learning through ICT

- New, creative, adaptable tools for educators and their students
- Secure and safe access to information
- Collaboration with colleagues and students in other establishments

Legislation Matters

CRC Energy Efficiency Scheme timeline – Introductory phase



Areas to consider

Baseline

- Analyse each site's contribution, and specific types of equipment (PCs, heating, lighting, School vehicles, etc)

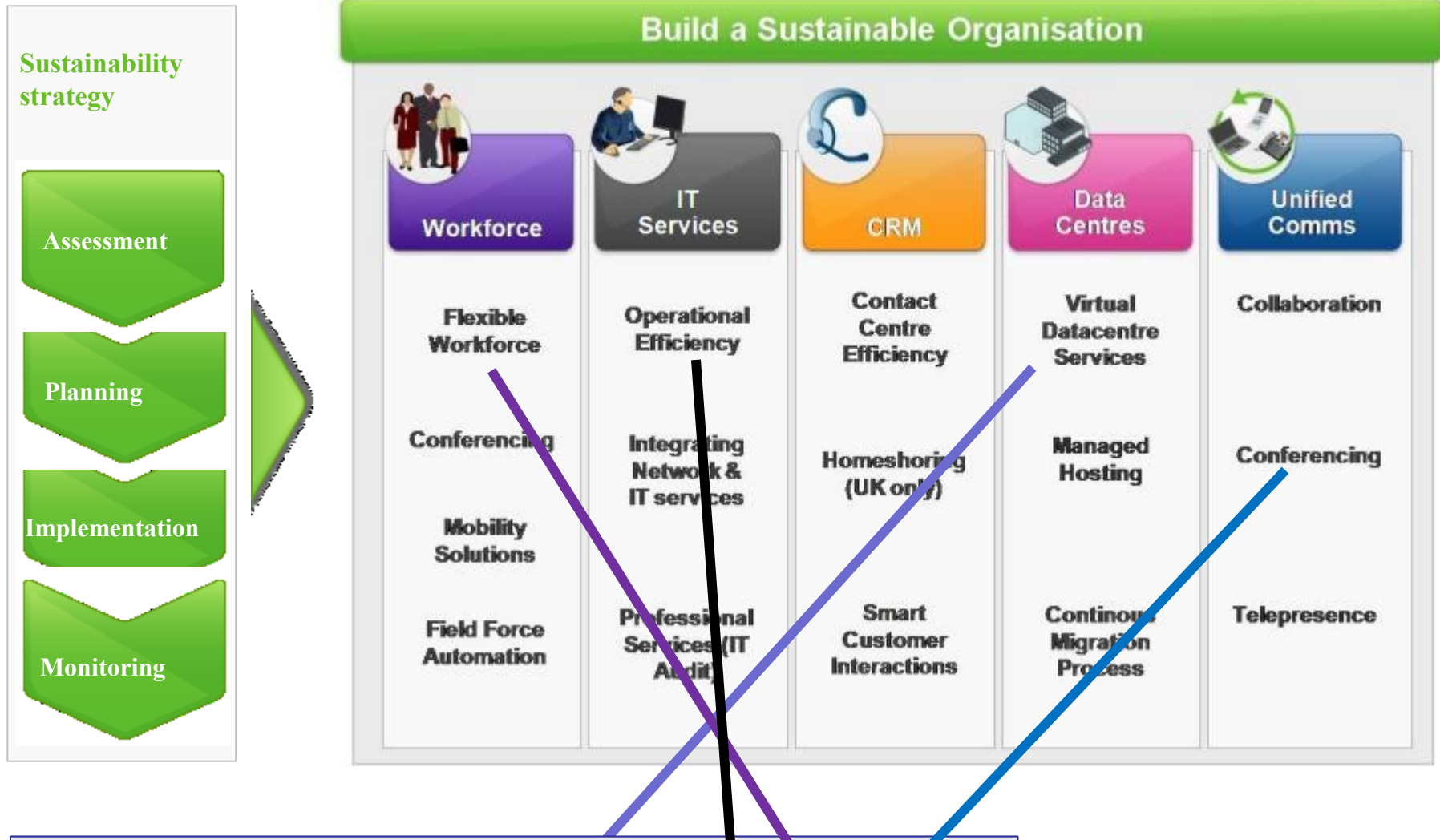
Reduce costs, carbon and increase efficiency

- Improve the efficiency of existing ICT, for example thin clients, server optimisation, consolidation
- Using ICT to reduce emissions elsewhere, for example by using clearly displayed LCD screens to show real-time energy consumption or full building management solutions
- Using ICT to reduce the need for travel, for example through video-conferencing between sites

Transforming learning, some areas to consider

- Capitalising on JANET availability, performance and development
- Ubiquitous WiFi access
- On and off campus resource utilisation
- Course delivery on and off campus
- Management, control and reporting
- Teacher packs and case studies

The Technology: Some Examples



Virtual Operational Efficiency – Such as thin clients to reduce school energy usage

Why BT? – our experience

Retention of skills

96% of women return to BT after maternity leave compared with a UK average of 47%, saving an additional €7.4 million a year

Homeworking

BT's 11,000 homeworkers save the company €104 million a year in accommodation costs

Flexible Working

Agile staff are 20% more productive: BT has 65,000 people enabled to work from home, 11,000 permanently based at home, 5,000 part-time, and 400 job sharers

Conferencing

Teleconferencing has eliminated the annual need for over 300,000 face-to-face meetings in BT, leading to savings of over €38.6m a year

Energy Efficiency

Data Centres: We have reduced our 1,500-server data centre down to just over 100 servers, saving £600,000 per year



Why BT? – our credentials

Delivering Sustainability to Customers

- Environment Agency
- NHS
- London 2012 Olympic Games

Awards & Recognition

- 2010 Frost & Sullivan Green Excellence Award
- 2009 E-Government Award for sustainable, green IT, or carbon-efficient services





Bringing it all together